

DEPARTMENT OF TRANSPORTATION

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October 30, 2003

04-SF-80-13.2/13.9
04-0120F4
ACBRIM-080-1(095)N

Addendum No. 15

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SAN FRANCISCO COUNTY IN SAN FRANCISCO FROM 0.6 KM TO 1.3 KM EAST OF THE YERBA BUENA TUNNEL EAST PORTAL.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on January 21, 2004.

This addendum is being issued to revise the Project Plans and the Notice to Contractors and Special Provisions.

Project Plan Sheets 25, 29, 30, 34, 48, 412, 507, 508, 513, 514, 515, 516, 517, 518, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 541, 542, 543, 544, 545, 553, 559, 576, 578, 592, 593, 736, 743, 820, 891, 893, 902, and 947 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the Special Provisions, Section 5-1.12, "PROJECT INFORMATION," subsection "INFORMATION HANDOUT," subsection "District Materials Information," under Items available for inspection, Item "K" is added as follows:

"K. SAS Suspension System Geometry"

In the Special Provisions, Section 5-1.20, "AREAS FOR CONTRACTOR'S USE," the second and third paragraphs are revised as follows:

"The Contractor shall have use of the areas as indicated on the plans and as follows and shall plan his work accordingly:

"Area EF" is primarily available to Contract 04-0120E4 until May 1, 2007, and then to this contract after that date. Prior to May 1, 2007, the Contractor shall coordinate any planned work in "Area EF" with the Engineer and Contract 04-0120E4 contractor. Additionally, footings at tower T1 and footing and piers at Pier E2 to be constructed by others under Contract 04-0120E4 will be substantially complete by May 1, 2007, to allow the Contractor to complete the tower and E2 work specified under the contract.

"Area CF" is designated for use by Contract 04-0120C4 and will not be available to the Contractor until October 1, 2004. Additionally, footing and piers at Pier W2 to be constructed by others under Contract 04-0120C4 will be substantially complete by October 1, 2004 to allow the Contractor to complete the W2 work specified under the contract.

"Area FPR" is primarily available to Contract 04-0120R4 until March 1, 2007, and then to this contract after that date. Prior to March 1, 2007, the Contractor shall coordinate any planned work in "Area FPR" with the Engineer and Contract 04-0120R4 contractor. After March 1, 2007, "Area FPR" shall be considered a part of "Area FP"

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"Area FP" is available for use by Contract 04-0120P4 and this contract commencing August 1, 2004. The Contractor shall coordinate any planned work in "Area FP" with the Engineer and Contract 04-0120P4 contractor. Additionally, once the Designated Portion "1" of the work is complete by the Contractor, the contractor prosecuting Contract 04-0120P4 shall be provided full and unrestricted access to "Area FP" to complete work under that contract.

The western portion of the Skyway constructed by others under Contract 04-012024 will be substantially complete by January 1, 2007, in order to allow the Contractor to complete the Hinge A connection and other work specified under the contract."

In the Special Provisions, Section 5-1.28, "SOUND CONTROL REQUIREMENTS," the second paragraph is replaced with the following two paragraphs:

"Attention is directed to Section 5-1.12 "Project Information" of these special provisions for reference to the USCG License DTCG-Z71111-03RP-002L, Amendment No. 1, Maintenance and Logistic Command Pacific.

The noise level from the Contractor's operations, between the hours of 7:00 p.m. and 7:00 a.m., shall not exceed 78 dbA when taken on the sidewalk outside of Building 26, adjacent to the breezeway and nearest the barracks room window. Impact-type mechanical operations, such as pile-driving and jack-hammering shall not be conducted between the hours of 7:00 p.m. and 7:00 a.m. At all times, the Contractor shall be responsible for complying with local ordinances regulating noise levels as well as the sound requirements of this section."

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," is revised as attached.

In the Special Provisions, Section 10-1.08, "COOPERATION," after the third paragraph, item 16 is added as follows:

"16. Contract 04-0105U4 providing Bridge Deck Rehabilitation, on the West span of San Francisco-Oakland Bay Bridge, on Route 80 from San Francisco Anchorage to Yerba Buena Anchorage, from KP 9.01 (PM5.6) to KP 12.22 (PM7.6), in the City and County of San Francisco."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "ASSEMBLY," subsection "Tower Lift Sections," the first sentence of the second paragraph is revised as follows:

"The ends of each lift shall meet the dimensional requirements given under "Shop Welding," subsection "Design Details" of these special provisions."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "SHOP WELDING," subsection "Welding of Closed Ribs to Box Shell Plate," Item B, the fourth paragraph is revised as follows:

"At completion of welding of all closed ribs to deck plate, the welded panels shall be checked for straightness and other production tolerances. The welded, unstraightened panel shall be flat within 1 in 500 in any direction. If the unstraightened panel is not flat within 1 in 500 in any direction, new measures such as different prebending or fixturing shall be proposed, and new trial panels welded. If the flatness requirement is satisfied, all remaining plates of the deck plate section shall be welded on to complete the steel mock-up. Testing of the closed rib welds shall be conducted after welding of all components of the mock-up have been completed."

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In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "INSPECTION AND TESTING," subsection "Pressure Test," the first paragraph is revised as follows:

"Where a pressure test is specified on the plans, such as to verify the integrity of closed rib sections, the air tightness of the enclosed area shall be pressure tested. The air pressure used for the test shall be 0.2 bar. The enclosed area shall be pressurized, and then isolated by closing the fill valve. Valves shall be placed in the end diaphragm of the rib. A calibrated pressure gage with suitable precision shall be monitored over a period of 2 hours. The pressure shall not drop by more than 10%. Compensation for pressure variations due to temperature changes shall be permitted within a range of 5 degrees Centigrade."

In the Special Provisions, Section 10-1.52, "CABLE SYSTEM," subsection "MATERIALS AND FABRICATION," subsection "Shop Prefabricated Parallel Wire Strand (PWS)," the twelfth paragraph is revised as follows:

"The sockets shall be manufactured in accordance with the approved socketing procedure. The end sections of socketed strands shall be proof tested by loading to 900 MPa to ensure no socket slippage and no damage to strand zinc coating. Each proof test shall include the socket plus a minimum of 3 meters of the socketed strand. The Contractor shall demonstrate to the satisfaction of the Engineer that proof testing will not damage strand zinc coating."

In the Special Provisions, Section 10-1.52, "CABLE SYSTEM," subsection "MATERIALS AND FABRICATION," subsection "Suspender Ropes," the tenth paragraph is revised as follows:

"Suspender rope sockets shall meet the requirements of ASTM Designation A148 grade 620-415. Suspender ropes shall be pre-stretched to 50% of their nominal ultimate capacity."

In the Special Provisions, Section 10-1.58, "SIGN STRUCTURES," the thirteenth paragraph is revised as follows:

"All ferrous metal parts of tubular sign structures shall be galvanized and shall be painted."

In the Special Provisions, Section 10-1.59, "CLEAN AND PAINT SIGN STRUCTURES," is revised as attached.

In the Special Provisions, Section 10-1.60, "METAL BARRIER MOUNTED SIGNS," the following paragraph is added before the first paragraph:

"Metal barrier mounted signs shall conform to the provisions in Section 56-2, "Roadside Signs," of the Standard Specifications and these special provisions."

In the Special Provisions, Section 10-1.68, "MISCELLANEOUS METAL (BRIDGE)," the third paragraph is revised as follows:

"Miscellaneous metal (bridge) shall consist of the miscellaneous bridge metal items listed in Section 75-1.03, "Miscellaneous Bridge Metal," of the Standard Specifications, and the following:

- A. Pullbox frames and covers
- B. Stairs
- C. Ladders
- D. Fender boarding ladders
- E. Railings, posts, and safety chains in tower and box girders

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- F. Hinged safety railings in tower and box girders (railing S11 modified)
- G. Handrails in tower and box girders
- H. Hinged and bolted access opening covers in tower and box girders
- I. Associated hardware"

To Proposal and Contract book holders:

Attached is a copy of District Materials Information, Item "K".

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This office is sending this addendum by UPS overnight mail to Proposal and Contract book holders to ensure that each receives it. A copy of this addendum and the modified wage rates are available for the contractor's use on the Internet Site:

http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY:

REBECCA D. HARNAGEL, Chief
Office of Plans, Specifications & Estimates
Office Engineer

Attachments

10-1.01 ORDER OF WORK

Order of work shall conform to the provisions in Section 5-1.05, "Order of Work," of the Standard Specifications and these special provisions.

The first order of work shall be to place the order for the traffic signal equipment, electrical engineered and miscellaneous equipments, consumable materials and aviation and marine navigational aids systems. The Engineer shall be furnished a statement from the vendor that the order for the said systems has been received and accepted by the vendor.

Attention is directed to "Strong Motion Detection System," of these special provisions regarding the order of work concerning electrical work for the seismic monitoring system.

No above ground electrical work shall be performed on any system within the project site until all Contractor-furnished electrical materials for that individual system have been tested and delivered to Contractor.

For each box girder location at Pier E2, the shear key shall be installed before the spherical bushing bearings are installed.

The State will furnish to the Contractor working drawings and physical template for the as-fabricated tower footing for locating the holes in the tower base plate for the tower anchorage anchor bolt pipe sleeves and the dowels by May 1, 2006.

DESIGNATED PORTION OF WORK

Attention is directed to Section 4, "Beginning Of Work, Time Of Completion And Liquidated Damages".

The Designated Portion of Work shall be defined as the completion of all elements of work, as shown on the plans and special provisions, except as described below. This includes all work necessary to allow the completion of Hinge "K" by the YBI Structures contractor prosecuting Contract No. 04-0120P4 as provided for under "Cooperation," of these special provisions, and all work required to place traffic on the structure in the westbound direction. Temporary supports shall be fully released and shall be clear of any superstructure member by a minimum of 2 meters in any direction.

The following items are not included in the Designated Portion of Work:

1. Complete removal of the temporary towers
2. Tower fender
3. Tower Skirt
4. Traveler installation
5. Internal deck painting
6. Final paint coat below deck level
7. Dehumidification System
8. Access details below the roadway level
9. Eastbound access details
10. Final tightening of the eastbound barriers
11. Eastbound electrical and mechanical work
12. Eastbound Hinge A joint seal assembly
13. Eastbound striping and signs
14. Bike path striping and joint sealing
15. Bike path railing and lighting

Attention is directed to "Maintaining Traffic" of these special provisions and construction sequences as shown on the plans.

Attention is directed to "Progress Schedule (Critical Path Method)" of these special provisions regarding the submittal of a general time-scaled logic diagram within 15 days after approval of the contract. The diagram shall be submitted prior to performing any work that may be affected by any proposed deviations to the construction staging of the project.

The work shall be performed in conformance with construction sequences shown on the plans and these special provisions. Nonconflicting work in subsequent sequences may proceed concurrently with work in preceding sequences, provided satisfactory progress is maintained in the preceding sequences of construction.

Attention is directed to "Environmental Work Restrictions," and "Environmentally Sensitive Areas (General)," of these special provisions.

Not less than 60 days prior to applying seeds, the Contractor shall furnish the Engineer a statement from the vendor that the order for the seed required for this contract has been received and accepted by the vendor. The statement from the vendor shall include the names and quantity of seed ordered and the anticipated date of delivery.

Attention is directed to "Move in/Move out (Erosion Control)" in these special provisions regarding the mobilization of equipment and materials for erosion control work.

Attention is directed to "Fiber Rolls" of these special provisions, regarding restrictions for erosion control (Type D) operations.

10-1.59 CLEAN AND PAINT SIGN STRUCTURES

Sign structures shall be cleaned and painted in conformance with the provisions in Section 56-1.05, "Surface Finish," Section 59-2.05 "Steam Cleaning", Section 59-3, "Painting Galvanized Surfaces", and Section 91, "Paint," of the Standard Specifications and these special provisions.

Whenever the Standard Specifications refer to "Steel Structures Painting Council," the reference shall be replaced with "SSPC: The Society for Protective Coatings."

The Contractor shall provide suitable enclosures to permit cleaning and painting during inclement weather. Provisions shall be made to control atmospheric conditions inside the enclosures with limits suitable for cleaning throughout the cleaning operation, painting throughout the painting operation, and for the drying period in accordance with ASTM designation: D 1640. Full compensation for providing and maintaining such enclosures shall be considered as included in the prices paid for the various contract items of work requiring paint and no additional compensation will be allowed therefor.

No extension of contract time will be granted and no additional compensation will be allowed as a result of temperature or humidity which exceeds the limits for cleaning or painting designated herein, except as approved by the Engineer.

APPLICATION

Fresh water shall be used for water rinsing operations. Water from water rinsing operations shall not be permitted to fall into the bay, or on public traffic, to flow across shoulders or lanes occupied by public traffic, or to flow into gutter or other drainage facilities.

Section 59-2.01, "General," of the Standard Specifications is amended by adding the following paragraphs after the first paragraph:

- A. Unless otherwise specified, no painting Contractors or subcontractors will be permitted to commence work without having the following current "SSPC: The Society for Protective Coatings" (formerly the Steel Structures Painting Council) certifications in good standing:
 - 1. For cleaning and painting structural steel in the field, certification in conformance with the requirements in Qualification Procedure No. 1, "Standard Procedure For Evaluating Painting Contractors (Field Application to Complex Industrial Structures)" (SSPC-QP 1).
 - 2. For removing paint from structural steel, certification in conformance with the requirements in Qualification Procedure No. 2, "Standard Procedure For Evaluating Painting Contractors (Field Removal of Hazardous Coatings from Complex Structures)" (SSPC-QP 2).
 - 3. For cleaning and painting structural steel in a permanent painting facility, certification in conformance with the requirements in Qualification Procedure No. 3, "Standard Procedure For Evaluating Qualifications of Shop Painting Applicators" (SSPC-QP 3). The AISC's Sophisticated Paint Endorsement (SPE) quality program will be considered equivalent to SSPC-QP 3.

Section 59-2.01, "General," of the Standard Specifications is amended by adding the following text to the second paragraph:

For the purposes of this Contract, the term "Exposed" shall not include the insides of steel boxes, pipes, and the like, when this specification is used for painting such items.

Prior to performing any painting or paint removal, the Contractor shall submit to the Engineer, in conformance with the provisions in "Working Drawings," of these special provisions, 3 copies of a separate Painting Quality Work Plan (PQWP) for each item of work for which painting or paint removal is to be performed. As a minimum, each PQWP shall include the following:

- A. The name of each Contractor or subcontractor to be used.
- B. One copy each of all current "SSPC: The Society for Protective Coatings" specifications or qualification procedures which are applicable to the painting or paint removal to be performed. These documents shall become the permanent property of the Department.
- C. Proposed methods and equipment to be used for any paint application.

D. Proof of each of any required certifications, SSPC-QP 1 or SSPC-QP 3.

1. In lieu of certification in conformance with the requirements in SSPC-QP 1 for this project, the Contractor may submit written documentation showing conformance with the requirements in Section 3, "General Qualification Requirements," of SSPC-QP 1.
2. In lieu of certification in conformance with the requirements in SSPC-QP 3 for this project, the Contractor may submit written documentation showing conformance with the requirements in Section 3, "General Qualification Requirements," of SSPC-QP 3.

The Engineer shall have 30 working days to review the PQWP submittal after a complete plan has been received. No painting or paint removal shall be performed until the PQWP for that work is reviewed by the Engineer.

PAINT GALVANIZED SURFACES

Exposed areas of galvanized surfaces shall receive a minimum of 2 finish coats of an exterior grade latex paint.

The finish coat paint shall be formulated for application to inorganic zinc coating and shall conform to the following:

A.

Property	Value	ASTM Designation
Pigment content, percent	24 max.	D 3723
Nonvolatile content, mass percent	49 min.	D 2369
Consistency, KU	75 min. to 90 max.	D 562
Fineness of dispersion, Hegman	6 min.	D 1210
Drying time at 25°C, 50% RH, 100-µm wet film: Set to touch, minutes Dry through, hours	30 max. 1 max.	D 1640
Adhesion	4A	D 3359, Procedure A

- B. No visible color change in the finish coats shall occur when tested in conformance with the requirements of ASTM Designation: G 53 using FS 40 UV-B bulbs for a minimum of 38 cycles. The cycle shall be 4 hours of ultraviolet (UV) exposure at 60°C and 4 hours of condensate exposure at 40°C.
- C. The vehicle shall be an acrylic or modified acrylic copolymer with a minimum of necessary additives.

The first finish coat shall be applied in 2 applications. The first application shall consist of a spray applied mist application. The second application shall be applied after the mist application has dried to a set to touch condition as determined by the procedure described in Section 7 of ASTM Designation: D1640. The first finish coat color shall match Federal Standard 595B No. 36628. The total dry film thickness of both applications of the first finish coat shall be not less than 50 µm.

Except as approved by the Engineer, a minimum drying time of 12 hours shall be allowed between finish coats.

The second finish coat color shall match Federal Standard 595B, No. 26408. The total dry film thickness of the applications of the second finish coat shall be not less than 50 µm.

The 2 finish coats shall be applied in 3 or more applications to a total dry film thickness of not less than 100 µm nor more than 200 µm.

PAYMENT

Payment for clean and paint sign structures shall conform to the provisions in Section 59-3.04, "Payment," of the Standard Specifications and these special provisions.

Full compensation for water rinsing shall be considered as included in the contract price paid per kilogram for furnish sign structure of the type involved and no additional compensation will be allowed therefor.

Full compensation for conforming to the requirements in SSPC-QP 1, SSPC-QP 2, and SSPC-QP 3 of the "SSPC: The Society for Protective Coatings" shall be considered as included in the contract lump sum price paid per kilogram for furnish sign structure of the type involved, and no additional compensation will be allowed therefor.